ECONOMIC BOTANY

Devoted to Applied Botany and Plant Utilization

Volume IV
1950

Founded, managed, edited and published by
EDMUND H. FULLING
at
The New York Botanical Garden

Advisory Editors

DR. RALPH HOLT CHENEY
Brooklyn College

DR. ALBERT F. HILL
Harvard University

DR. WILLIAM J. ROBBINS
The New York Botanical Garden

DR. E. E. STANFORD
College of the Pacific

DR. H. W. YOUNGKEN
Massachusetts College of Pharmacy

Published Quarterly
Printed at 111 East Chestnut Street,
Lancaster, Pa.

SCIENCE
LIBRARY
QK
1
E215

CONTENTS

Semi-Popular Articles

Some Potential Sources of Important Plant Products in California 3
Maté—South American or Paraguay Tea 37
The Taxonomy, Harvesting, Processing and Utilization of Eucalyptus Trees in Australia 99
Bulrushes and Their Multiple Uses 132
Domestic Production of the Essential Oils of Peppermint and Spearmint 139
Sugar-Cane—As Seen from Hawaii 150
Diseases of Fruits and Vegetables Found on the Market, and Means of Controlling Them 177
Papain—The Valuable Latex of a Delicious Tropical Fruit 192
The Natural Hard Resins—Their Botany, Sources and Utilization 203
Brush-Making Fibres 243
The Avocado—A Gift from the Middle Americas 253
The Origin and History of Pop Corn 294
Age-Old Resins of the Mediterranean Region and Their Uses .. 307
Alginates in Drugs and Cosmetics .. 317
Citronella Oil 322
Leucaena—A Promising Soil-Erosion-Control Plant 337
Comparison of Seed and Vegetative Propagation Methods for Red Squill 350

Technical Literature Reviews

The Taxonomy, Genetics, Production and Uses of the Cultivated Species of *Cucurbita* 52
Peanuts—Especially Their Diseases 354

Book Condensation

Flight from Reality 85

Utilization Abstracts

Panama Hats 81
Opium 82
Sisal 83
Straw Paper-Pulp 84
New Naval Stores Product 138
Nipa Palm 149
Lespedeza Oil 194
Food from Algae 194
Rice Bran Oil 194
Cashew Oil 194
Pine Tannin 194
Geranium Oil 242
Yaupon 293
Sericea 293
Bagasse 299
Kenaf 299
Vegetable Oils in Venezuela 300
Lemongrass Oil 304
Bark Wax 316
Origin of Corn Belt Maize 321
Cork Substitutes 336
Cortisone 353
Yuca 379
Ramie 380
Mannitol and Sorbitol 380
Maple Flavor Imitations 381
Synthetic Camphor, Menthol, Salicylic Acid 381
Carotene and Chlorophyll 382
Florida Fibers 383
Sumac Tannin 385

Book Reviews

The Useful and Ornamental Plants in Zanzibar and Pemba 93
Corn and Corn Growing 93
A Concise Encyclopedia of World Timbers 94
The Wealth of India 94
American Heartwood 94
The Coming Age of Wood 95
Genetics in Swedish Forestry Practice 96
Vegetable Gums and Resins 195
The Essential Oils 195
Textile Fiber Atlas 196
Rayon 196
Citrus Products 197
Chemical Activities of Fungi 198
Forest Products 386
Forage Crops 388
Industrial Microbiology 388
The History and Social Influence of the Potato 390
The Actinomycetes 391
Bananas 392
Apples and Apple Products 392